

Science News & Journal Club Public Talk



时 间: 2017年11月24日 12:15 - 1:45pm

地 点: 紫台2号楼411会议室

Science News:

报 告 人: 徐国强

Journal Club Public Talk:

报 告 人: 姜浩轩

报告题目: **Seven Temperate Terrestrial Planets around the Nearby Ultracool Dwarf Star TRAPPIST-1**

报告摘要: One focus of modern astronomy is to detect temperate terrestrial exoplanets well-suited for atmospheric characterization. Seven terrestrial planets were recently detected orbiting around an ultra-cool dwarf star, by transiting photometric. Indeed, the transiting configuration of these planets combined with the Jupiter-like size of their host star, named TRAPPIST-1, makes possible in-depth studies of their atmospheric properties with current and future astronomical facilities. Here we report the results of a photometric monitoring campaign of that star from the ground and space-based *Spitzer* Space Telescope. Our observations reveal that at least seven planets with sizes and masses similar to the Earth and that have equilibrium temperatures low enough to make possible liquid water on their surfaces.

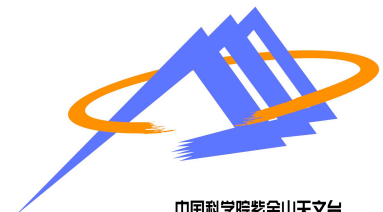
主要参考文献:

Gillon, M., et al., 2016, *Nature*, 533:221

Gillon, M., et al., 2017, *Nature*, 542:456

Perryman, *Exoplanet Handbook-annotated*, 2010

欢迎大家
积极参与!



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